
Air Quality System
Precision and Accuracy Data Transaction Generator
(AQSP&A)



Training Session

Air Quality System
Precision and Accuracy Data Transaction Generator

(AQSP&A)



Training Session

Overview of AQSP&A

- Background
- Setting up the application
- Functionality
- Questions



This training course will cover these topics.

Background

- How does AQSP&A fit in with AQS?
- Hardware and Operating Systems



How does AQSP&A fit in with AQS?

- AQSP&A is an Excel workbook that generates the 2 transactions for Precision and Accuracy data (The RA transaction and the RP transaction).
- Visual Basic for Applications (VBA) is used to automate validations, look ups, and generation of transaction files.
- Use of drop down lists, and look-ups of valid monitors helps simplify transaction creation.
- AQSP&A is not a stand-alone database; it is not designed to store data and generate reports.

AQSP&A contains “reference” worksheets of valid monitors, valid protocol combinations (parameter, method, unit, sampling duration) and valid code values for several different fields on the RA and RP transactions. These reference worksheets are loaded from the AQS database and updated each time a new release is posted. The reference worksheets allow the spreadsheet to look up code values and validate fields on the transactions as they are generated.

The purpose of AQSP&A is to make it easier for you to create Precision and Accuracy transactions by providing lookups of valid monitors and codes, and their descriptions. An Excel application is used because we thought it was one of the most universal and understood products available to Agencies.

Hardware and Operating Systems

AQSP&A runs on Windows 98, 2000, or XP operating systems.

Files can be opened with Excel 97, Excel 2000, Excel XP (2002), and Excel 2003.

Background

- What do RA and RP Transactions look like?

Files from CDX ready to Load:

File Date	File Name	Status
20060620 14:00	RPtransactions.txt	NOTIFY
20060620 14:00	RPtransactions.txt	NOTIFY

Transaction examples:

RA||30|013|0001|42101|1|1|1|007|093|||20060401|AUDIT AND CERT BY RO|LAMINAR FLOW ELEMENT|ANALYTICAL|PE|||5|5|18|18|37|37||||

This transaction wraps around for display only... it is one continuous text line when submitted to AQS Load.

RP||30|013|0001|42101|1|1|1|007|093|20060401|5||5|||

What do RA and RP Transactions look like?

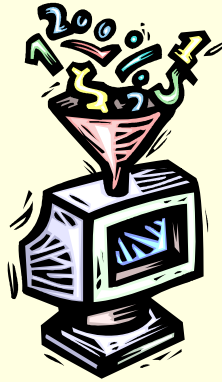
Transactions are text files that are loaded to AQS from the EPA's Central Data Exchange (CDX) website. The above form shows files ready to load as they would look in the AQS Batch load form.

Each text file contains transactions, shown below the form.

Fields are separated by the vertical bar delimiter “|” .

Setting Up AQSP&A

- Load Regional file to your PC
 - One file for each EPA Region



Setting up AQSP&A

Load file to your PC

The USEPA OAQPS Technology Transfer Network (TTN) website contains a site for AQS. The AQS site has a page for AQSP&A downloads. The AQSP&A Excel files are posted there: one for each EPA Region.

The web address is
<http://www.epa.gov/ttn/airs/airsaqs/padata/padata.htm>

Setting Up AQSP&A

- Load Regional file to your PC
 - One file for each EPA Region

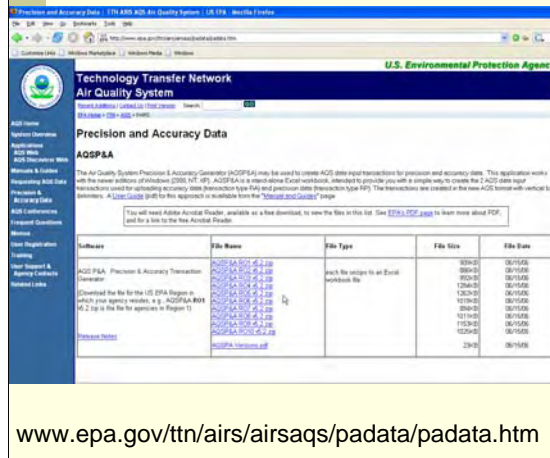


One file for each EPA Region

Here is a map showing the EPA regions.

Setting Up AQSP&A

- Load Regional file to your PC
- One file for each EPA Region



The screenshot shows the EPA Technology Transfer Network Air Quality System website. The main content area is titled "Precision and Accuracy Data" and "AQSP&A". It includes a table of files with columns for File Name, File Type, File Size, and File Date. The table lists files for various EPA regions, including Region 1, Region 2, Region 3, Region 4, Region 5, Region 6, Region 7, Region 8, Region 9, Region 10, and Region 11. The files are named according to the region and the version number.

File Name	File Type	File Size	File Date
AQSP&A_Precision and Accuracy Transaction Generator	each file contains its own Excel worksheet file	10/15/05	10/15/05
Download the file for the 10 EPA Region in which your agency resides, e.g., AQSP&A_Region 1		10/15/05	10/15/05
AQSP&A_Region 1		10/15/05	10/15/05
AQSP&A_Region 2		10/15/05	10/15/05
AQSP&A_Region 3		10/15/05	10/15/05
AQSP&A_Region 4		10/15/05	10/15/05
AQSP&A_Region 5		10/15/05	10/15/05
AQSP&A_Region 6		10/15/05	10/15/05
AQSP&A_Region 7		10/15/05	10/15/05
AQSP&A_Region 8		10/15/05	10/15/05
AQSP&A_Region 9		10/15/05	10/15/05
AQSP&A_Region 10		10/15/05	10/15/05
AQSP&A_Region 11		10/15/05	10/15/05

www.epa.gov/ttn/airs/airsaqs/padata/padata.htm

Setting Up AQSP&A

This is the website where you will find the 10 EPA regional files.

These files are updated on occasion as needed. The version number is included in the file name so that you can tell if you have the most recent file.

An arbitrary file naming convention is used:

- Incremented version numbers mean new AQSP&A program code or new code values added by AQS in addition to refreshing look up tables.
- Incremented alphabetical characters following the version number mean refreshed look up tables

So if you have added new monitors to AQS, they will be included in the next posted version of AQSP&A. And you can tell when AQSP&A has been refreshed by the version number and date.

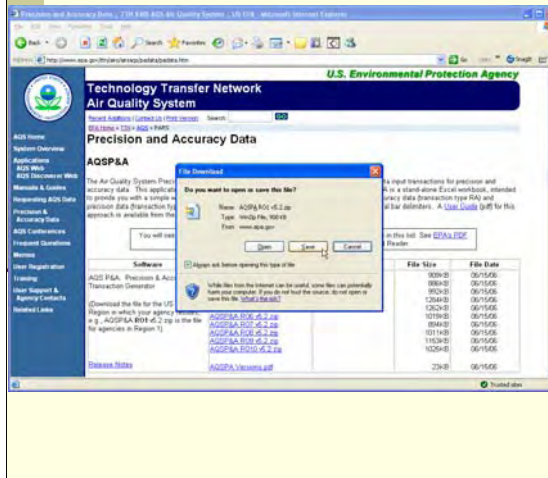
*

Choose the file for the USEPA Region that your agency resides in.

Each of the 10 files are similar, except that reference worksheets (for lookup data and validation) are loaded with monitor data specific to the screening groups located in the EPA Region.

Setting Up AQSP&A

- Load Regional file to your PC
- One file for each EPA Region



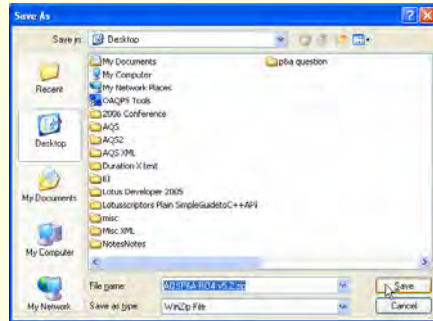
Setting Up AQSP&A

To download the file to your PC, click on the filename of the regional AQSP&A file you wish to download.

You will get a "File Download" confirmation window, or something similar depending on which internet browser you are using. The examples on these slides show the Microsoft Internet Explorer file download confirmation window.

Setting Up AQSP&A

- Load Regional file to your PC
 - One file for each EPA Region



Setting Up AQSP&A

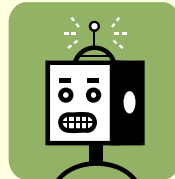
Specify path and filename, and then click on Save.

Note that this is a zipped file. After saving it, you must unzip it. The zipped file will unzip to one Excel file.

You can rename the Excel file, move, copy, or delete it... similar to any other files on your PC.

Setting Up AQSP&A

- Load Regional file to your PC
 - One file for each EPA Region
- Enable macros in Excel
 - Security setting = Medium

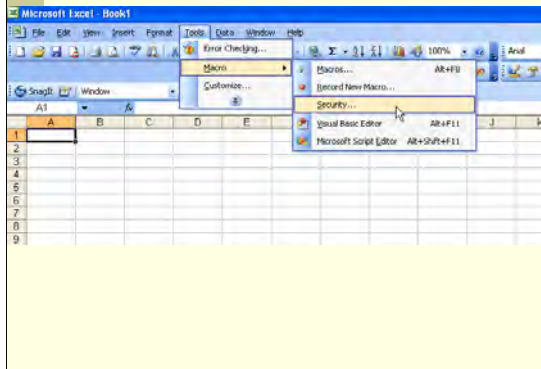


Setting Up AQSP&A

After downloading the regional file to your PC, the next step is to make sure that macros are enabled in your Excel application.

Setting Up AQSP&A

- Load Regional file to your PC
 - One file for each EPA Region
- Enable macros in Excel
 - Security setting = Medium



To make sure that macros are enabled, open Excel. (Use the Excel shortcut, rather than clicking on the Excel file).

After you have opened Excel, select Tools / Macro / Security.

Setting Up AQSP&A

- Load Regional file to your PC
 - One file for each EPA Region
- Enable macros in Excel
 - Security setting = Medium



Setting Up AQSP&A

Select a security level setting of "Medium". With this setting, Excel will prompt you each time you open a file that contain Macros.

Notes regarding security settings:

- | | | |
|------------------------------------|---|---------------------------------|
| Excel security setting of "Low" | = | no prompt, macros are run. |
| Excel security setting of "Medium" | = | prompt to enable macros or not. |
| Excel security setting of "High" | = | no prompt, macros are not run. |

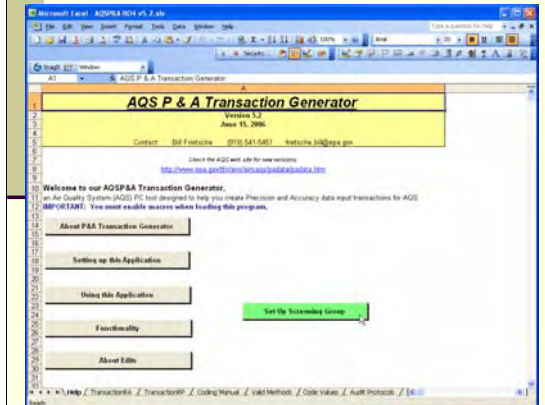
And for Excel 2003:

- | | | |
|---------------------------------------|---|--------------------------------|
| Excel security setting of "Very High" | = | no prompt, macros are not run. |
|---------------------------------------|---|--------------------------------|

A security setting of "High" or "Very High" prevents AQSP&A macros from running and the AQSP&A application will not work. The macros in AQSP&A include Visual Basic for Application (VBA) procedures that run "behind the scenes" to automate the application, including lookups, button functions, data validation, and report creation.

Setting Up AQSP&A

- Load Regional file to your PC
- Enable macros in Excel
- Set up screening group in AQSP&A



Set up Screening Group in AQSP&A

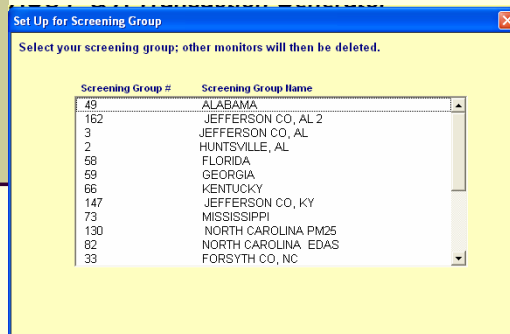
Open the AQSP&A file with Excel.

Enable Macros.

The Help worksheet will open, and includes a "Set Up Screening Group" button.

Setting Up AQSP&A

- Load Regional file to your PC
- Enable macros in Excel
- Set up screening group in AQSP&A



Set Up Screening Group

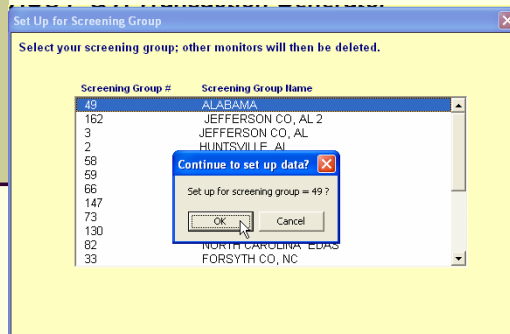
Click the set up screening group button.

Choose one screening group from dialog window.

All other monitors and associated reference data will be deleted, leaving only your screening group data.

Setting Up AQSP&A

- Load Regional file to your PC
- Enable macros in Excel
- Set up screening group in AQSP&A

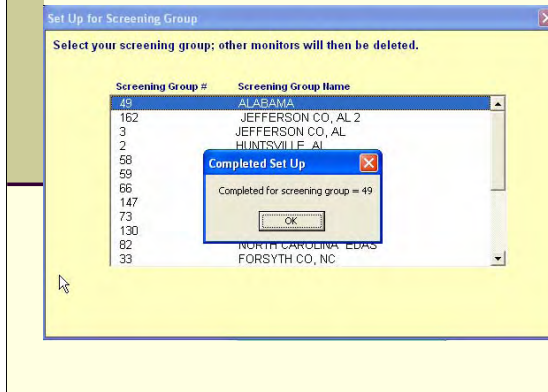


Set Up Screening Group

Click "OK" on the confirmation window to continue to set up data.

Setting Up AQSP&A

- Load Regional file to your PC
- Enable macros in Excel
- Set up screening group in AQSP&A



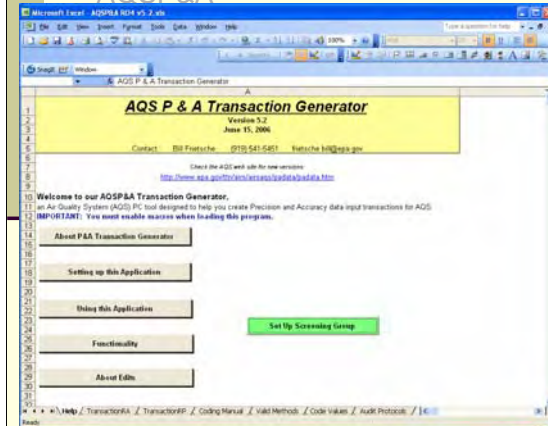
Set Up Screening Group

And click "OK" again to message window.

You will return to the "Help" worksheet

Setting Up AQSP&A

- Load Regional file to your PC
- Enable macros in Excel
- Set up screening group in AQSP&A



Set Up Screening Group

After clicking "OK" to message window, you will return to the "Help" worksheet.

Notes about screening group set up:

Using the screening group set up button helps to ensure that you build transactions only for the monitors belonging to your screening group.

You only run this utility one time.

The "Set Up Screening Group" button does not have to be used. If you want all of the lookup data available for all agencies in the EPA Region, then ignore the "Set Up Screening Group" button.

If you submit precision and accuracy data to AQS for more than one screening group, then you can create copies of the AQSP&A file with different names for each screening group that you use. The AQSP&A files must have different names, of course, or else reside in different directories. Run the Set Up Screening Group utility for each file you have copied and renamed, and choose a different screening group for each copy.

AQSP&A Functionality

■ Workbook Structure

- 7 Worksheets
 - 1 "Help" sheet
 - One sheet for each transaction type (RA,RP)
 - 1 sheet stores coding manual information
 - 3 sheets hold look-up data for codes and data validation



AQSP&A Functionality

Workbook Structure

The Workbook contains 7 worksheets:

Help

TransactionRA

TransactionRP

Coding Manual

Valid Methods

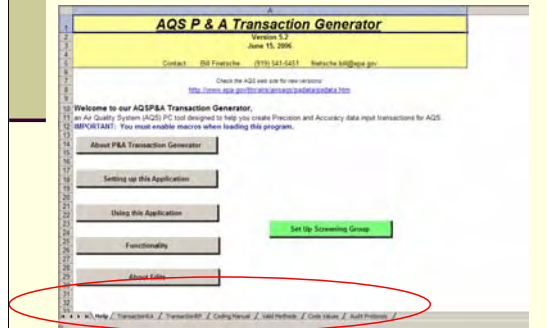
Code Values

Audit Protocols

AQSP&A Functionality

■ Workbook Structure

- 7 Worksheets
 - 1 "Help" sheet
 - One sheet for each transaction type (RA,RP)
 - 1 sheet stores coding manual information
 - 3 sheets hold look-up data for codes and data validation



Workbook Structure

The **Help** worksheet provides a starting point, some embedded help, and the **Set Up Screening Group** button.

To create accuracy transactions (type RA), use the **TransactionRA** worksheet.

To create precision transactions, (type RP), use the **TransactionRP** worksheet.

The **Coding Manual** worksheet contains entries for fields on transactions RA and RP.

The **Valid Methods**, **Code Values**, and **Audit Protocols** worksheets contain monitors, methods, and code values so that the transaction worksheets can provide automated lookups and validation with Visual Basic for Application (VBA) procedures.

These last 4 worksheets have been left accessible, however users do not need to navigate them to use the application.

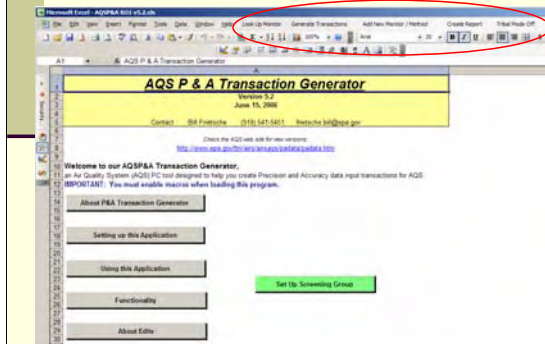
AQSP&A Functionality

■ Workbook Structure

■ Additional Toolbar Commands



- Look up Monitor
- Generate Transactions
- Add New Monitor / Method
- Create Report
- Tribal Mode (On/Off)



Additional Toolbar Commands

This application adds 5 new commands to your Excel toolbar.

Look up Monitor

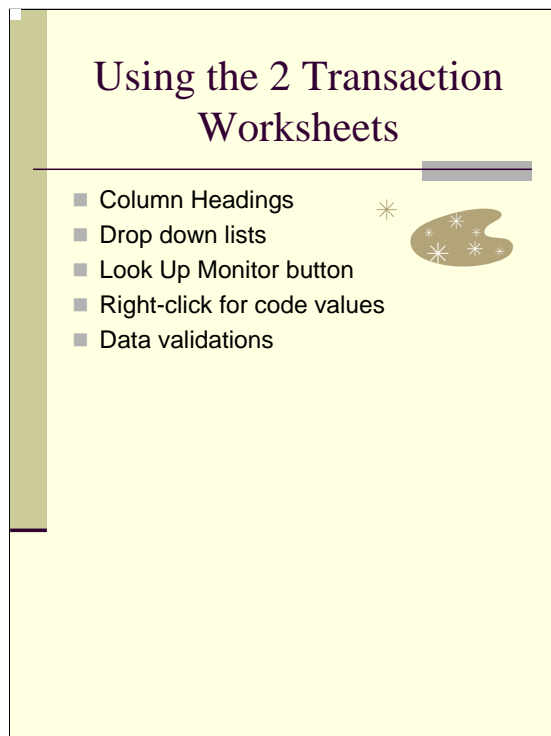
Generate Transactions

Add New Monitor / Method

Create Report

Tribal Mode (On/Off)

We will go over these commands shortly.



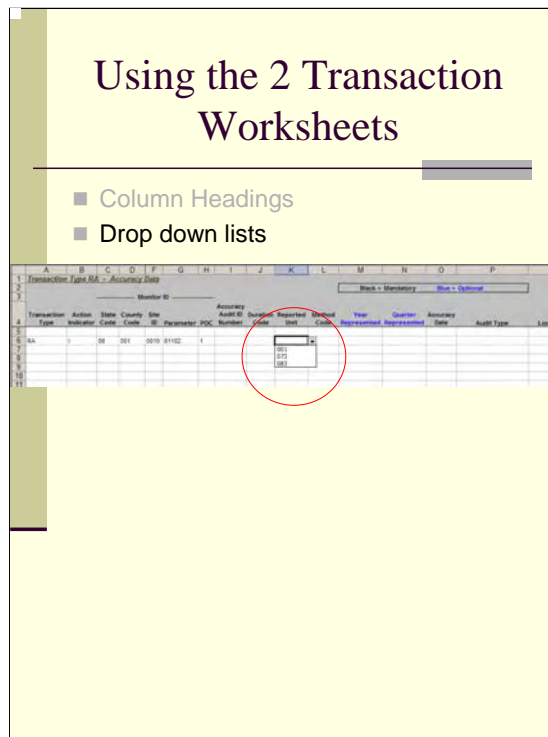
Functionality on the 2 transaction worksheets

Each transaction worksheet has a fixed header area that contains the names of the fields in the order that they appear in the transaction format for the transaction type.

To create a transaction, populate a row with appropriate values in each column. If you want to create multiple transactions, populate multiple rows with the required data.

- Column Headings

[illegible]



Functionality on the 2 transaction worksheets - continued

Drop down lists

For fields that have a set of allowable codes or values, drop down lists will appear in each cell containing the allowable choices when you select the field. Here is list of values for unit codes for the monitor id shown.

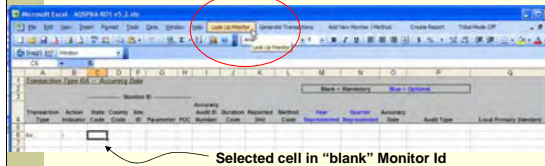
The left mouse button is used to select the appropriate value from the list.

In all cases, warnings are given if values not on the list are typed in; however you can proceed with those values if so desired.

But if you generate a transaction with non-valid values, you will receive an error when attempting to load the transaction into AQS.

Using the 2 Transaction Worksheets

- Column Headings
- Drop down lists
- Look Up Monitor button



Functionality on the 2 transaction worksheets - continued

Look Up Monitor button

To use the Look Up Monitor button, you must select a monitor id field in a row with a blank monitor id. Any one of the monitor id fields can be selected.

Then click the Look Up Monitor command button.

Using the 2 Transaction Worksheets

- Column Headings
- Drop down lists
- Look Up Monitor button

Functionality on the 2 transaction worksheets - continued

Look Up Monitor button

After clicking the Look Up Monitor command button, a form to select the State, County and Monitor will open.

Make the appropriate selections, and then choose OK on the Add Monitor confirmation window.

*(Note that for this example, **Set Up Screening Group** was not run... the choices include all States in the EPA Region 1)*

Using the 2 Transaction Worksheets

- Column Headings
- Drop down lists
- Look Up Monitor button

Transaction Type	Indicator	State	County	Site	Parameter	POC	Monitor	Code	Unit	Code	Represented	Represented	Date	Audit Type
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

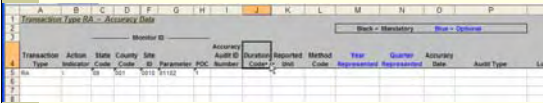
Functionality on the 2 transaction worksheets - continued

Look Up Monitor button

The monitor id is returned to the worksheet.

Using the 2 Transaction Worksheets

- Column Headings
- Drop down lists
- Look Up Monitor button
- Right-click for code values



The screenshot shows a spreadsheet interface with columns labeled A through P. The data includes transaction details such as Transaction Type, Action, State, County, Site, Accuracy, Audit ID, Duration, Reported, Method, Year, Quarter, Accuracy, Date, Audit Type, and Location. A dropdown menu is visible for the 'Duration' field, showing options like '10', '15', '20', '25', '30', '35', '40', '45', '50', '55', '60', '65', '70', '75', '80', '85', '90', '95', '100', '105', '110', '115', '120', '125', '130', '135', '140', '145', '150', '155', '160', '165', '170', '175', '180', '185', '190', '195', '200', '205', '210', '215', '220', '225', '230', '235', '240', '245', '250', '255', '260', '265', '270', '275', '280', '285', '290', '295', '300', '305', '310', '315', '320', '325', '330', '335', '340', '345', '350', '355', '360', '365', '370', '375', '380', '385', '390', '395', '400', '405', '410', '415', '420', '425', '430', '435', '440', '445', '450', '455', '460', '465', '470', '475', '480', '485', '490', '495', '500', '505', '510', '515', '520', '525', '530', '535', '540', '545', '550', '555', '560', '565', '570', '575', '580', '585', '590', '595', '600', '605', '610', '615', '620', '625', '630', '635', '640', '645', '650', '655', '660', '665', '670', '675', '680', '685', '690', '695', '700', '705', '710', '715', '720', '725', '730', '735', '740', '745', '750', '755', '760', '765', '770', '775', '780', '785', '790', '795', '800', '805', '810', '815', '820', '825', '830', '835', '840', '845', '850', '855', '860', '865', '870', '875', '880', '885', '890', '895', '900', '905', '910', '915', '920', '925', '930', '935', '940', '945', '950', '955', '960', '965', '970', '975', '980', '985', '990', '995', '1000'.

Functionality on the 2 transaction worksheets - continued

Right-click for code values

A right click on Column Headings returns the coding manual description.

For example, a right click on Duration Code results in...

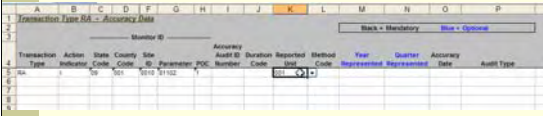
- Column Headings
- Drop down lists
- Look Up Monitor button
- **Right-click for code values**

Functionality on the 2 transaction worksheets - continued

31

Using the 2 Transaction Worksheets

- Column Headings
- Drop down lists
- Look Up Monitor button
- Right-click for code values



The screenshot shows a spreadsheet interface with the following visible data:

Transaction	Action	State	County	Site	Audit ID	Duration	Reported	Method	Year	Quarter	Accuracy	Audit Type	Ln
1	1	1	1	1	1	1	1	1	1	1	1	1	1

Functionality on the 2 transaction worksheets - continued

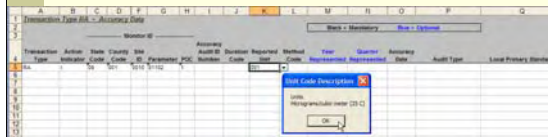
Right-click for code values

A right click on a code value will return the code description.

For example, a right click on a units code results in...

Using the 2 Transaction Worksheets

- Column Headings
- Drop down lists
- Look Up Monitor button
- Right-click for code values

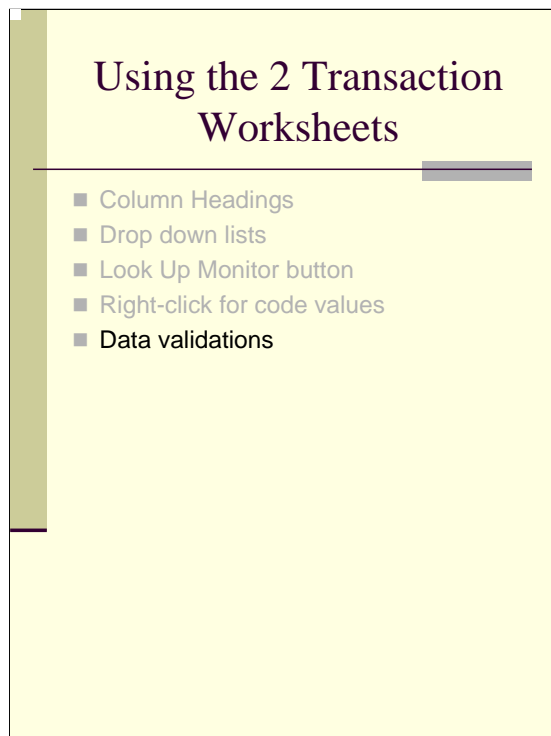


Functionality on the 2 transaction worksheets - continued

Right-click for code values

A message box with the description for unit code 001.

Fields that store code values will have the right-click look up available.



Functionality on the 2 transaction worksheets - continued

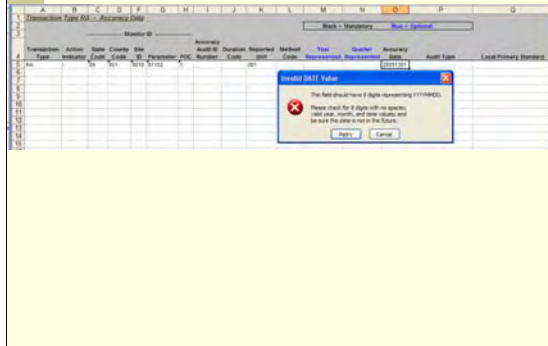
Data Validations

Excel data validations have been created for cells that store date fields and code values.

Validations for Numeric fields and mandatory fields are performed by VBA procedures.

Using the 2 Transaction Worksheets

- Column Headings
- Drop down lists
- Look Up Monitor button
- Right-click for code values
- Data validations



Functionality on the 2 transaction worksheets - continued

Data Validations

Here is an example of a date field validation error message. A month of "13" was inadvertently entered, and the cell's data validation formula caught the error.

Invalid dates are the only fields where data entry is stopped on error, and you must fix the date. All other validations result in warnings, so you can either fix the data or you can continue on with the invalid value.

Transactions are text files that can be edited with any word processor, and can easily be changed to include any values you choose. But AQS will validate the data as part of the load process when you submit the transactions, and invalid data will result in failed transaction(s).

Using the 2 Transaction Worksheets

- Column Headings
- Drop down lists
- Look Up Monitor button
- Right-click for code values
- Data validations

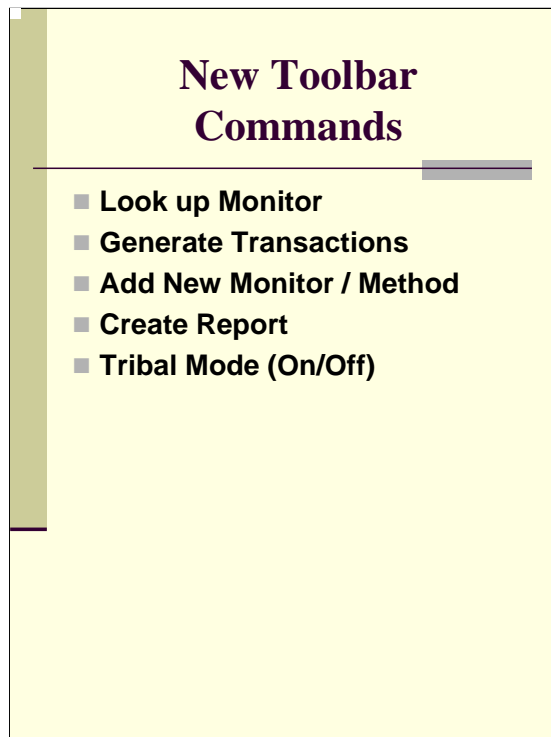
The screenshot shows a Microsoft Excel worksheet titled "Transaction Type BA - Accuracy Data". The worksheet contains a table with columns for Transaction, Action, State, County, Site, Audit ID, Iteration, Requested, Method, Val, Location, Accuracy, Audit Type, and Local ID. A dialog box titled "Invalid Value" is displayed over the table, with the message "The value you have entered is not on the list of valid values." and buttons for "OK", "Cancel", and "Continue".

Functionality on the 2 transaction worksheets - continued

Data Validations

Here is an example of a field validation error message for a code value. An invalid code value of “unknown” was typed in for **Audit Type**. This resulted in a warning message, and you are prompted to fix the invalid value. Note that you could continue with the invalid value if you wished.

To fix the entry you could use the drop-down list of values.



New Toolbar Commands

AQSAP&A adds 5 new commands to your Excel toolbar.

Look up Monitor

Generate Transactions

Add New Monitor / Method

Create Report

Tribal Mode (On/Off)

New Toolbar Commands

- **Look up Monitor**



- We discussed the use of this command a few slides ago

New Toolbar Commands

Look up Monitor

As we have already discussed, this command allows you to select a monitor from a list of valid monitors in AQS, choosing State-County-Site-Parameter-and POC.

See slide 26.

New Toolbar Commands

- Look up Monitor
- **Generate Transactions**



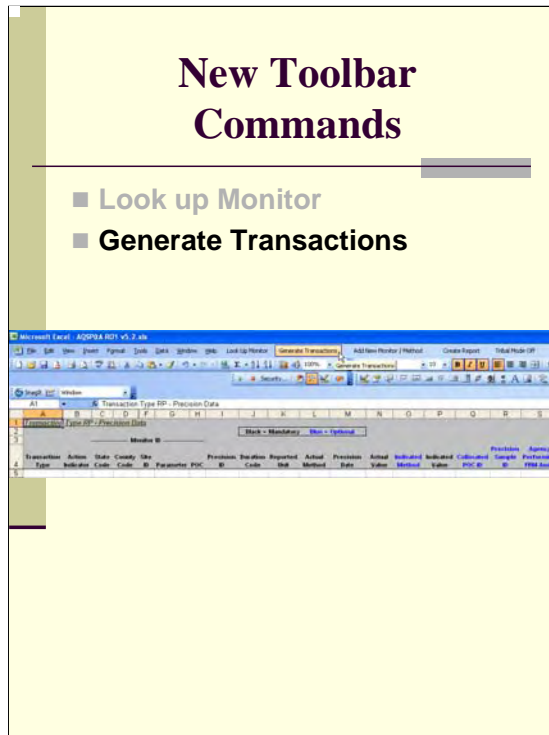
New Toolbar Commands

- **Generate Transactions**

This is the reason for this spreadsheet... to create transactions!

New Toolbar Commands

- Look up Monitor
- Generate Transactions



New Toolbar Commands

- **Generate Transactions – cont**

This is the command button used to create a text file in AQS input transaction format.

New Toolbar Commands

- Look up Monitor
- Generate Transactions
 - Enter all of the data you want to update to AQS.
 - Each row is one transaction.

Transaction Type: W - Payroll Data																			
Monitor W																			
Transaction	Agency	State	County	City	Paymaster	PNC	Bi	Code	Inst	Method	Rate	Value	Subtotal	Inducted	Collected	Targeted	Provision	Agency	Provision
Type	Indicator	Code	Code	Code	Code	Code	Code	Code	Code	Code	Code	Code	Code	Code	Code	Code	Code	Code	Code
1	W	1	000	000	0000	00100	1	1	7	001	002	20000010	25						
2	W	1	000	000	0000	00100	1	1	7	001	002	20000010	15						
3	W	1	000	000	0000	00100	1	1	7	001	002	20000010	17						
4	W	1	000	000	0000	00100	1	1	7	001	002	20000010	4						
5	W	1	000	000	0000	00100	1	1	7	001	002	20000010	58						
6	W	1	000	000	0000	00100	1	1	7	001	002	20000010	35						
7	W	1	000	000	0000	00100	1	1	7	001	002	20000010	29						
8	W	1	000	000	0000	00100	1	1	7	001	002	20000010	17						
9	W	1	000	000	0000	00100	1	1	7	001	002	20000010	18						
10	W	1	000	000	0000	00100	1	1	7	001	002	20000010	28						
11	W	1	000	000	0000	00100	1	1	7	001	002	20000010	25						
12	W	1	000	000	0000	00100	1	1	7	001	002	20000010	28						
13	W	1	000	000	0000	00100	1	1	7	001	002	20000010	28						
14	W	1	000	000	0000	00100	1	1	7	001	002	20000010	28						
15	W	1	000	000	0000	00100	1	1	7	001	002	20000010	28						
16	W	1	000	000	0000	00100	1	1	7	001	002	20000010	28						
17	W	1	000	000	0000	00100	1	1	7	001	002	20000010	28						
18	W	1	000	000	0000	00100	1	1	7	001	002	20000010	28						
19	W	1	000	000	0000	00100	1	1	7	001	002	20000010	28						
20	W	1	000	000	0000	00100	1	1	7	001	002	20000010	28						

New Toolbar Commands

- Generate Transactions – cont.

Enter all of the data you want to update to AQS. Each row is one transaction.

New Toolbar Commands

- Look up Monitor
- Generate Transactions
 - Highlight at least one cell in each row to generate transactions.

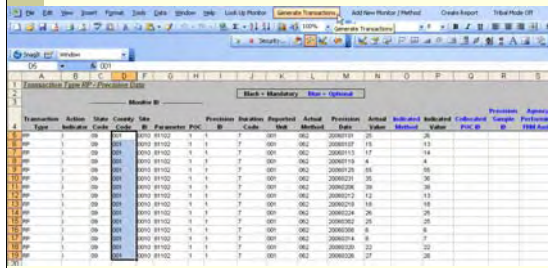
Transaction Type (P) - Parameters (L)														
Monitor ID														
Block - Mandatory New - Optional														
Transaction	Actual	Date	County	Day	Parameter	PVC	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate
Type	Indicator	Code	Code	Code	Code	Code	Code	Code	Code	Code	Code	Code	Code	Code
1	1	100	001	001	001	001	001	001	001	001	001	001	001	001
2	1	100	001	001	001	001	001	001	001	001	001	001	001	001
3	1	100	001	001	001	001	001	001	001	001	001	001	001	001
4	1	100	001	001	001	001	001	001	001	001	001	001	001	001
5	1	100	001	001	001	001	001	001	001	001	001	001	001	001
6	1	100	001	001	001	001	001	001	001	001	001	001	001	001
7	1	100	001	001	001	001	001	001	001	001	001	001	001	001
8	1	100	001	001	001	001	001	001	001	001	001	001	001	001
9	1	100	001	001	001	001	001	001	001	001	001	001	001	001
10	1	100	001	001	001	001	001	001	001	001	001	001	001	001
11	1	100	001	001	001	001	001	001	001	001	001	001	001	001
12	1	100	001	001	001	001	001	001	001	001	001	001	001	001
13	1	100	001	001	001	001	001	001	001	001	001	001	001	001
14	1	100	001	001	001	001	001	001	001	001	001	001	001	001
15	1	100	001	001	001	001	001	001	001	001	001	001	001	001
16	1	100	001	001	001	001	001	001	001	001	001	001	001	001
17	1	100	001	001	001	001	001	001	001	001	001	001	001	001
18	1	100	001	001	001	001	001	001	001	001	001	001	001	001
19	1	100	001	001	001	001	001	001	001	001	001	001	001	001
20	1	100	001	001	001	001	001	001	001	001	001	001	001	001

New Toolbar Commands

- Generate Transactions – cont.

Highlight at least one cell in each row to generate transactions.

- **Look up Monitor**
- **Generate Transactions**
 - Click the Generate Transactions command button.

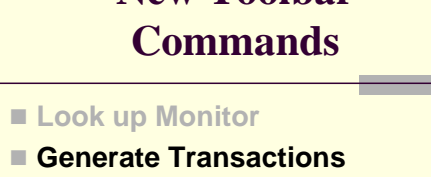


- **Generate Transactions – cont.**

Click the **Generate Transactions** command button.

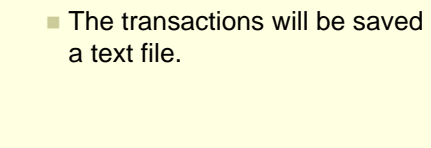
New Toolbar Commands

- Look up Monitor
- Generate Transactions
 - The transactions will be saved as a text file.



The screenshot shows the 'Look Up Monitor' window with the 'Generate Transactions' button highlighted in the toolbar. The window displays a table with columns: Transaction, Status, Counter, Date, and Parameters. The table contains data for transactions 001 through 009, all with a status of '1'.

Transaction	Status	Counter	Date	Parameters
001	1	0001	01/02/01	1
002	1	0002	01/02/01	1
003	1	0003	01/02/01	1
004	1	0004	01/02/01	1
005	1	0005	01/02/01	1
006	1	0006	01/02/01	1
007	1	0007	01/02/01	1
008	1	0008	01/02/01	1
009	1	0009	01/02/01	1



The screenshot shows the 'Save My Transactions' dialog box. The 'Save in' field is set to 'My Documents'. The 'File name' field is empty. The 'Save as type' is set to 'Text File (*.txt)'. The 'Save' button is highlighted.

Save My Transactions

Save in: My Documents

File name:

Save as type: Text File (*.txt)

Save

- **Generate Transactions – cont.**

After the validation procedure completes, a “Save As” dialog box will prompt you for a path and filename. The transactions will be saved as a text file.

New Toolbar Commands

- Look up Monitor

- **Generate Transactions**

- The transactions will be saved as a text file.

```
RP||09|001|0010|81102|1|1|7|001|062|20060101|25||26|||
RP||09|001|0010|81102|1|1|7|001|062|20060107|15||13|||
RP||09|001|0010|81102|1|1|7|001|062|20060113|17||14|||
RP||09|001|0010|81102|1|1|7|001|062|20060119|4||4|||
RP||09|001|0010|81102|1|1|7|001|062|20060125|55||55|||
RP||09|001|0010|81102|1|1|7|001|062|20060231|35||36|||
RP||09|001|0010|81102|1|1|7|001|062|20060206|39||38|||
RP||09|001|0010|81102|1|1|7|001|062|20060212|12||13|||
RP||09|001|0010|81102|1|1|7|001|062|20060218|18||18|||
RP||09|001|0010|81102|1|1|7|001|062|20060224|26||25|||
RP||09|001|0010|81102|1|1|7|001|062|20060302|25||25|||
RP||09|001|0010|81102|1|1|7|001|062|20060308|6||6|||
RP||09|001|0010|81102|1|1|7|001|062|20060314|8||7|||
RP||09|001|0010|81102|1|1|7|001|062|20060320|22||22|||
RP||09|001|0010|81102|1|1|7|001|062|20060326|27||28|||
```

New Toolbar Commands

- **Generate Transactions – cont.**

Here are the transactions that were generated.

New Toolbar Commands

■ Look up Monitor

■ Generate Transactions

- Here is an example error listing.

AQSP&A Error Listing for the following file:
RP transactions from Jul 5 2006 @03-08-27 PM .txt

Error Messages -----

Row # 1, Cols 13 & 15: % difference of 190.2% outside range of $\pm 160\%$.
Row # 6, Col # 12: Invalid PRECISION DATE
Row # 9, Col # 3 - 7 : Invalid Monitor ID (State-County-Site-Parameter-POC)
Row # 9, Col # 15: Invalid INDICATED VALUE

New Toolbar Commands

- **Generate Transactions- cont.**

If errors were encountered, you will be asked if you want to generate an error listing.

If you want an error listing, then a "Save As" dialog box will prompt you for a path and filename for the error listing.

Here is an example error report.

New Toolbar Commands

- Look up Monitor
- Generate Transactions
- **Add New Monitor / Method**



New Toolbar Commands

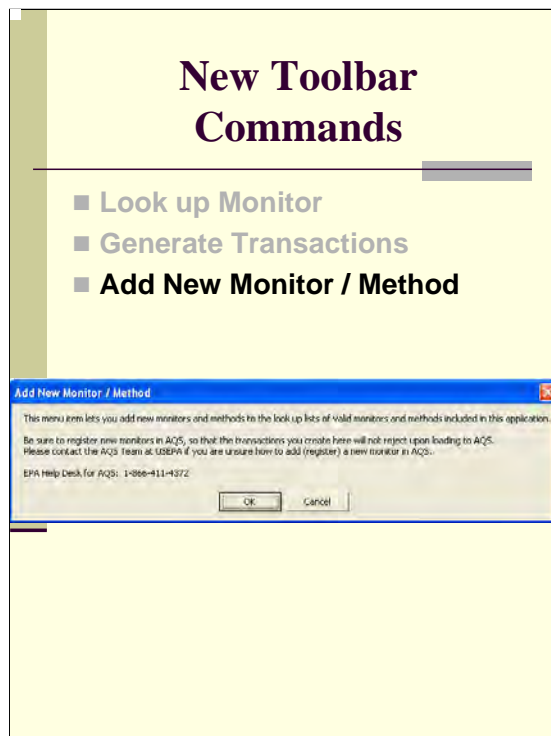
•Add New Monitor / Method

This is the command button used to add new data to the look up tables so that new monitors, methods, protocols, etc. will be available in the look up and validation procedures.

- Look up Monitor
- Generate Transactions
- **Add New Monitor / Method**



This is the command button used to add new data to the look up tables so that new monitors, methods, protocols, etc. will be available in the look up and validation procedures.



New Toolbar Commands

- **Add New Monitor / Method**

After clicking the command button, the following message appears to remind you that data you add to the spreadsheet must also be added to AQS to prevent failed transactions.

New Toolbar Commands

- Look up Monitor
- Generate Transactions
- **Add New Monitor / Method**

Add New Monitor / Method

This form is used to add monitors and methods to the lookup worksheets, so that they will be available when you click the "Look Up Monitor" menu button. The monitor must already exist in AQS, or the transactions will fail. If you have questions about registering a new monitor with AQS, contact your EPA Regional Office or the AQS Team.

State Code:
 County Code:
 Site ID:
 Parameter Code:
 POC:
 Address:
 Sampling Duration Code:
 Note Code:
 Method Code:

Create this Monitor or Method
 Exit (no save)

New Toolbar Commands

•Add New Monitor / Method

All of the fields on the form must be filled in. The values will be validated to a certain extent, and then added to the look up data.

If you are adding a new method, method descriptions are required. It is best to copy the descriptions exactly from AQS.

This form does not in any way result in or represent a request to add data to AQS. The purpose of this form is to allow you to easily update your spreadsheet with new lookup data that has already been added to AQS.

When a new version of AQSP&A is posted, it will include the data in AQS up to that point in time. But after a while, you may be missing some new methods or monitors that you have added to AQS since the AQSP&A files were posted. This form allows you to add those new values to AQSP&A manually, so that you will have complete lookups for your monitors and methods.

New Toolbar Commands

- Look up Monitor
- Generate Transactions
- Add New Monitor / Method

Add New Monitor / Method

This form is used to add monitors and methods to the lookup worksheets, so that they will be available when you click the "Look Up Monitor" menu button. The monitor must already exist in AQS, or the transactions will fail. If you have questions about registering a new monitor with AQS, contact your EPA Regional Office or the AQS Team.

State Code	09
County Code	001
Site ID	0010
Parameter Code	81102
DOC	1
Address	ROOSEVELT ELECTION PARK AVE
Sampling Duration Code	7
Well's Code	001
Method Code	222

Create this Monitor or Method

Exit (no save)

New Toolbar Commands

•Add New Monitor / Method

Here is an example with all of the fields filled in, and a new method code specified.

Click Create this Monitor or Method to proceed.

New Toolbar Commands

- Look up Monitor
- Generate Transactions
- **Add New Monitor / Method**

Add New Monitor / Method

This form is used to add monitors and methods to the lookup worksheets, so that they will be available when you click the "Look Up Monitor" menu button. The monitor must already exist in ADS, or the transactions will fail. If you have questions about registering a new monitor with ADS, contact your EPA Regional Office or the ADS Team.

State Code: 09
County Code: 001
Site ID: 0010
Parameter Code: 01102
IOC: 1
Address: 40000000, 00000000, 0000, 0000
Sampling Duration: **Proceed?**
Units Code:
Method Code:

Add the Monitor(Methods/Units)/Sampling Duration combination to the lookup table?

Yes No

New Toolbar Commands

- **Add New Monitor / Method**

Click Yes to the confirmation window.

New Toolbar Commands

- Look up Monitor
- Generate Transactions
- Add New Monitor / Method

Add New Monitor / Method

This form is used to add monitors and methods to the lookup worksheets, so that they will be available when you click the "Look Up Monitor" menu button. The monitor must already exist in AQS, or the transactions will fail. If you have questions about registering a new monitor with AQS, contact your EPA Regional Office or the AQS Team.

State Code	09
County Code	001
Site ID	0010
Parameter Code	01102
Method	

Add New Method Code for Parameter -- 01102

You have not used the Method Code for this Parameter before. Do you want to add a new valid Method for 01102?
(NOTE: This parameter and method combination must be valid in AQS or transactions using this method will reject.)

New Toolbar Commands

•Add New Monitor / Method

Click Yes to another confirmation window.

New Toolbar Commands

- Look up Monitor
- Generate Transactions
- Add New Monitor / Method

This form is used to add monitors and methods to the lookup worksheets, so that they will be available when you click the "Look Up Monitor" menu button. The monitor must already exist in AQS, or the transactions will fail. If you have questions about registering a new monitor with AQS, contact your EPA Regional Office or the AQS Team.

State Code: 09
County Code: 001
Site ID: 0010
Parameter Code: 01102
AQC: 1
Address: 40
Sampling Duration Code: 7
Units Code: 001
Method Code: 222

New Method Code - Sample Analysis Description

No previous parameter/method code combination found. Please enter Sample Analysis Description exactly as it appears in AQS for the parameter and method code.

OK Cancel

New Toolbar Commands

•Add New Monitor / Method

In this case, method 222 for this parameter has not been used before, so the descriptions will be required.

For this example, we will make up fictitious "test" descriptions.

New Toolbar Commands

- Look up Monitor
- Generate Transactions
- Add New Monitor / Method

Add New Monitor / Method

This form is used to add monitors and methods to the lookup worksheets, so that they will be available when you click the "Look Up Monitor" reset button. The monitor must already exist in AQS, or the transactions will fail. If you have questions about registering a new monitor with AQS, contact your EPA Regional Office or the AQS Team.

State Code	09
County Code	001
Site ID	0010
Parameter Code	01102
DOC	1
Address	
Sampling Duration Code	7
Units Code	001
Method Code	222

New Method Code - Sample Analysis Description

No previous parameter/method code combination found. Please enter Sample Analysis Description exactly as it appears in AQS for the parameter and method code.

OK Cancel

Test Sample Analysis Description for New Method

New Toolbar Commands

•Add New Monitor / Method

After carefully typing in the Sample Analysis Description, click OK.

New Toolbar Commands

- Look up Monitor
- Generate Transactions
- Add New Monitor / Method

Add New Monitor / Method

This form is used to add monitors and methods to the lookup worksheets, so that they will be available when you click the "Look Up Monitor" menu button. The monitor must already exist in AQS, or the transactions will fail. If you have questions about registering a new monitor with AQS, contact your EPA Regional Office or the AQS Team.

State Code	09
County Code	001
Site ID	0010
Parameter Code	01102
DOC	1
Address	40
Sampling Duration Code	7
Units Code	00
Method Code	22

New Method Code - Sample Collection Description

No previous parameter/method code combination found. Please enter Sample Collection Description exactly as it appears in AQS for this parameter and method code.

Test Sample Collection Description for New Method

New Toolbar Commands

•Add New Monitor / Method

A Sample Collection Description is also required for a new method code.

After carefully typing in the Sample Collection Description, click OK.

New Toolbar Commands

- Look up Monitor
- Generate Transactions
- Add New Monitor / Method

Add New Monitor / Method

This form is used to add monitors and methods to the lookup worksheets, so that they will be available when you click the "Look Up Monitor" menu button. The monitor must already exist in AQS, or the transactions will fail. If you have questions about registering a new monitor with AQS, contact your EPA Regional Office or the AQS Team.

State Code	09
County Code	001
Site ID	0010
Parameter Code	01102
AQC	1
Address	46
Sampling Duration Code	7
Units Code	00
Method Code	22

New Method Code - Equivalent Method Description

No previous parameter/method code combination found. Please enter Equivalent Method Description exactly as it appears in AQS for the parameter and method code.

First Equivalent Method Description for New Method Code

New Toolbar Commands

•Add New Monitor / Method

An Equivalent Method Description is also required for a new method code.

After carefully typing in the Equivalent Method Description, click OK.

New Toolbar Commands

- Look up Monitor
- Generate Transactions
- Add New Monitor / Method

Add New Monitor / Method

This form is used to add monitors and methods to the lookup worksheets, so that they will be available when you click the "Look Up Monitor" menu button. The monitor must already exist in AQS, or the transactions will fail. If you have questions about registering a new monitor with AQS, contact your EPA Regional Office or the AQS Team.

State Code: 09
County Code: 001

Add New Method for: 09-001-0010-01102-1 Method = 222

Adding these values to the lookup tables will allow you to create transactions with a new method code for this monitor.

Monitor = 09-001-0010-01102-1
Method Code = 222
Units Code = 001
Sampling Duration = ?

Do you want to create this new protocol for this monitor?

Yes No

New Toolbar Commands

•Add New Monitor / Method

You will get one more confirmation window for creating the new protocol. Click Yes, and the new method will be added to the lookup tables.



New Toolbar Commands

•Add New Monitor / Method

An Audit Class must also be assigned. Since this method is a 24 hour avg concentration in micrograms per liter, audit class is analytical. Click OK.

Note that you are not updating any data in AQS; what you are doing is adding values to the spreadsheet lookup tables, so that these new values will be included in the drop-down lists of values, and any data validation.

New Toolbar Commands

- Look up Monitor
- Generate Transactions
- Add New Monitor / Method

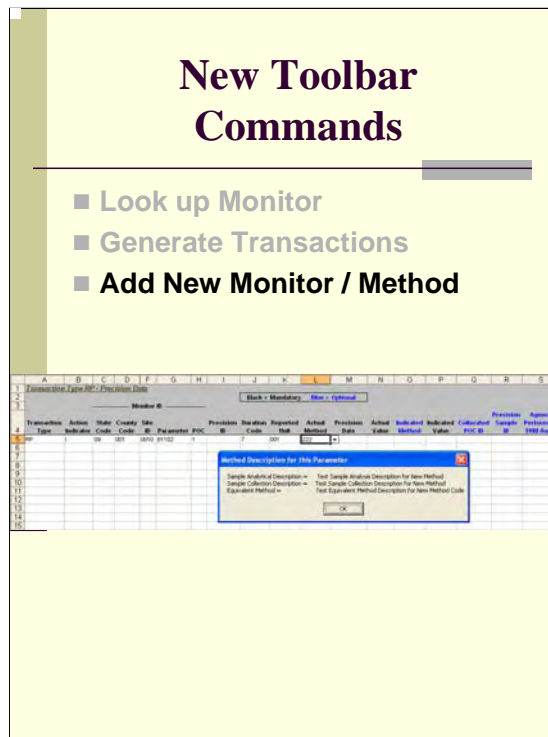
Transaction	Actual	State	County	Year	Parameter	PNC	W	Code	Sub	Method	Rate	Value	Method	Value	PNC	W	Year	Actual
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

New Toolbar Commands

•Add New Monitor / Method

Now when the values for actual method are presented in the list of values, an additional choice of method 222 exists for this monitor.

Choose this method code, and right click the method code to see the description.



New Toolbar Commands

- **Add New Monitor / Method**

The new descriptions are also included in the lookup data.

Notes:

1. You can add sites, parameters, POCs, durations, methods, and units with this form.
2. The Equivalent method description is only populated for equivalent and reference methods. If you know the value, you can populate it on this form. Leaving it blank is OK too, as long as the method exists in AQS, and you are using the correct method code.
3. This may be confusing... but just remember that the values you have filled in with this add monitor method function are not affecting AQS in any way. You are just adding info to the lookup tables, so now you have a method 222 (in this example) and it will appear in your list of values, along with the lookup descriptions you gave it.

New Toolbar Commands

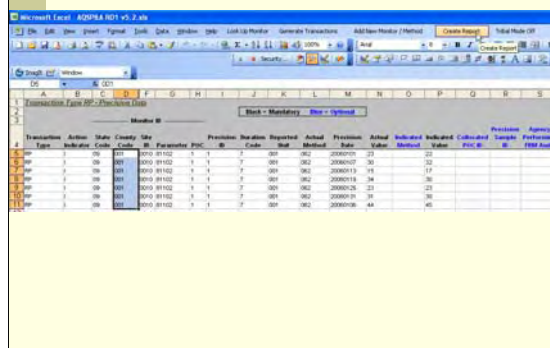
- Look up Monitor
- Generate Transactions
- Add New Monitor / Method
- Create Report



Transaction Type RP - Precision Data															
Monitor ID _____															
Block - Mandatory New - optional															
Transaction Indicator	Active	State	County	Site	Prevision Code	Iteration ID	Reported Date	Actual Method	Prevision Date	Actual Value	Indicated Method	Indicated Value	Calculated Value	Precision Sample Size	Agencies Precision Data
1	1	100	001	01102	1	1	2	001	002	20000101	20	20	20	20	
2	1	100	001	01102	1	1	2	001	002	20000102	20	20	20	20	
3	1	100	001	01102	1	1	2	001	002	20000103	16	17			
4	1	100	001	01102	1	1	2	001	002	20000104	19	24	20	20	
5	1	100	001	01102	1	1	2	001	002	20000105	23	23			
6	1	100	001	01102	1	1	2	001	002	20000106	20	20	20	20	
7	1	100	001	01102	1	1	2	001	002	20000107	20	20	20	20	
8	1	100	001	01102	1	1	2	001	002	20000108	20	20	20	20	
9	1	100	001	01102	1	1	2	001	002	20000109	20	20	20	20	
10	1	100	001	01102	1	1	2	001	002	20000110	20	20	20	20	
11	1	100	001	01102	1	1	2	001	002	20000111	20	20	20	20	
12	1	100	001	01102	1	1	2	001	002	20000112	20	20	20	20	
13	1	100	001	01102	1	1	2	001	002	20000113	20	20	20	20	
14	1	100	001	01102	1	1	2	001	002	20000114	20	20	20	20	
15	1	100	001	01102	1	1	2	001	002	20000115	20	20	20	20	
16	1	100	001	01102	1	1	2	001	002	20000116	20	20	20	20	
17	1	100	001	01102	1	1	2	001	002	20000117	20	20	20	20	
18	1	100	001	01102	1	1	2	001	002	20000118	20	20	20	20	
19	1	100	001	01102	1	1	2	001	002	20000119	20	20	20	20	
20	1	100	001	01102	1	1	2	001	002	20000120	20	20	20	20	
21	1	100	001	01102	1	1	2	001	002	20000121	20	20	20	20	
22	1	100	001	01102	1	1	2	001	002	20000122	20	20	20	20	
23	1	100	001	01102	1	1	2	001	002	20000123	20	20	20	20	
24	1	100	001	01102	1	1	2	001	002	20000124	20	20	20	20	
25	1	100	001	01102	1	1	2	001	002	20000125	20	20	20	20	
26	1	100	001	01102	1	1	2	001	002	20000126	20	20	20	20	
27	1	100	001	01102	1	1	2	001	002	20000127	20	20	20	20	
28	1	100	001	01102	1	1	2	001	002	20000128	20	20	20	20	
29	1	100	001	01102	1	1	2	001	002	20000129	20	20	20	20	
30	1	100	001	01102	1	1	2	001	002	20000130	20	20	20	20	
31	1	100	001	01102	1	1	2	001	002	20000131	20	20	20	20	
32	1	100	001	01102	1	1	2	001	002	20000132	20	20	20	20	
33	1	100	001	01102	1	1	2	001	002	20000133	20	20	20	20	
34	1	100	001	01102	1	1	2	001	002	20000134	20	20	20	20	
35	1	100	001	01102	1	1	2	001	002	20000135	20	20	20	20	
36	1	100	001	01102	1	1	2	001	002	20000136	20	20	20	20	
37	1	100	001	01102	1	1	2	001	002	20000137	20	20	20	20	
38	1	100	001	01102	1	1	2	001	002	20000138	20	20	20	20	
39	1	100	001	01102	1	1	2	001	002	20000139	20	20	20	20	
40	1	100	001	01102	1	1	2	001	002	20000140	20	20	20	20	
41	1	100	001	01102	1	1	2	001	002	20000141	20	20	20	20	
42	1	100	001	01102	1	1	2	001	002	20000142	20	20	20	20	
43	1	100	001	01102	1	1	2	001	002	20000143	20	20	20	20	
44	1	100	001	01102	1	1	2	001	002	20000144	20	20	20	20	
45	1	100	001	01102	1	1	2	001	002	20000145	20	20	20	20	
46	1	100	001	01102	1	1	2	001	002	20000146	20	20	20	20	
47	1	100	001	01102	1	1	2	001	002	20000147	20	20	20	20	
48	1	100	001	01102	1	1	2	001	002	20000148	20	20	20	20	
49	1	100	001	01102	1	1	2	001	002	20000149	20	20	20	20	
50	1	100	001	01102	1	1	2	001	002	20000150	20	20	20	20	
51	1	100	001	01102	1	1	2	001	002	20000151	20	20	20	20	
52	1	100	001	01102	1	1	2	001	002	20000152	20	20	20	20	
53	1	100	001	01102	1	1	2	001	002	20000153	20	20	20	20	
54	1	100	001	01102	1	1	2	001	002	20000154	20	20	20	20	
55	1	100	001	01102	1	1	2	001	002	20000155	20	20	20	20	
56	1	100	001	01102	1	1	2	001	002	20000156	20	20	20	20	
57	1	100	001	01102	1	1	2	001	002	20000157	20	20	20	20	
58	1	100	001	01102	1	1	2	001	002	20000158	20	20	20	20	
59	1	100	001	01102	1	1	2	001	002	20000159	20	20	20	20	
60	1	100	001	01102	1	1	2	001	002	20000160	20	20	20	20	
61	1	100	001	01102	1	1	2	001	002	20000161	20	20	20	20	
62	1	100	001	01102	1	1	2	001	002	20000162	20	20	20	20	
63	1	100	001	01102	1	1	2	001	002	20000163	20	20	20	20	
64	1	100	001	01102	1	1	2	001	002	20000164	20	20	20	20	
65	1	100	001	01102	1	1	2	001	002	20000165	20	20	20	20	
66	1	100	001	01102	1	1	2	001	002	20000166	20	20	20	20	
67	1	100	001	01102	1	1	2	001	002	20000167	20	20	20	20	
68	1	100	001	01102	1	1	2	001	002	20000168	20	20	20	20	
69	1	100	001	01102	1	1	2	001	002	20000169	20	20	20	20	
70	1	100	001	01102	1	1	2	001	002	20000170	20	20	20	20	
71	1	100	001	01102	1	1	2	001	002	20000171	20	20	20	20	
72	1	100	001	01102	1	1	2	001	002	20000172	20	20	20	20	
73	1	100	001	01102	1	1	2	001	002	20000173	20	20	20	20	
74	1	100	001	01102	1	1	2	001	002	20000174	20	20	20	20	
75	1	100	001	01102	1	1	2	001	002	20000175	20	20	20	20	
76	1	100	001	01102	1	1	2	001	002	20000176	20	20	20	20	
77	1	100	001	01102	1	1	2	001	002	20000177	20	20	20	20	
78	1	100	001	01102	1	1	2	001	002	20000178	20	20	20	20	
79	1	100	001	01102	1	1	2	001	002	20000179	20	20	20	20	
80	1	100	001	01102	1	1	2	001	002	20000180	20	20	20	20	
81	1	100	001	01102	1	1	2	001	002	20000181	20	20	20	20	
82	1	100	001	01102	1	1	2	001	002	20000182	20	20	20	20	
83	1	100	001	01102	1	1	2	001	002	20000183	20	20	20	20	
84	1	100	001	01102	1	1	2	001	002	20000184	20	20	20	20	
85	1	100	001	01102	1	1	2	001	002	20000185	20	20	20	20	
86	1	100	001	01102	1	1	2	001	002	20000186	20	20	20	20	
87	1	100	001	01102	1	1	2	001	002	20000187	20	20	20	20	
88	1	100	001	01102	1	1	2	001	002	20000188	20	20	20	20	
89	1	100	001	01102	1	1	2	001	002	20000189	20	20	20	20	
90	1	100	001	01102	1	1	2	001	002	20000190	20	20	20	20	
91	1	100	001	01102	1	1	2	001	002	20000191	20	20	20	20	
92	1	100	001	01102	1	1	2	001	002	20000192	20	20	20	20	
93	1	100	001	01102	1	1	2	001	002	20000193	20	20	20	20	
94	1	100	001	01102	1	1	2	001	002	20000194	20	20	20	20	
95	1	100	001	01102	1	1	2	001	002	20000195	20	20	20	20	
96	1	100	001	01102	1	1	2	001	002	20000196	20	20	20	20	
97	1	100	001	01102	1	1	2	001	002	20000197	20	20	20	20	

New Toolbar Commands

- Look up Monitor
- Generate Transactions
- Add New Monitor / Method
- Create Report



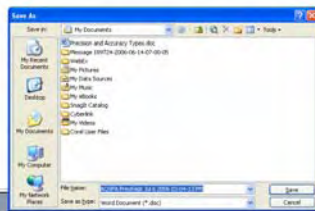
New Toolbar Commands

Create Report

After highlighting the rows you want printed, click on the Create Report command button.

- Look up Monitor
- Generate Transactions
- Add New Monitor / Method
- **Create Report**

Model	Parameter	Units	Pre-2001 Actual Value	Actual Value 2001-2009	Actual Value 2010-2019	Individualized Primary Care Rate	Unit	% Difference
20-001-0000-00000-14	FPMF Tumor Tumor Tumor	2000000131	131	129	129	129	Microgranulocytic leukaemia (C82)	-4.5%
20-001-0000-00000-14	FPMF Tumor Tumor Tumor	2000000131	131	129	129	129	Microgranulocytic leukaemia (C82)	-6.9%
20-001-0000-00000-14	FPMF Tumor Tumor Tumor	2000000131	131	129	129	129	Microgranulocytic leukaemia (C82)	-12.5%
20-001-0000-00000-14	FPMF Tumor Tumor Tumor	2000000131	131	129	129	129	Microgranulocytic leukaemia (C82)	-12.5%
20-001-0000-00000-14	FPMF Tumor Tumor Tumor	2000000131	131	129	129	129	Microgranulocytic leukaemia (C82)	-6.9%
20-001-0000-00000-14	FPMF Tumor Tumor Tumor	2000000131	131	129	129	129	Microgranulocytic leukaemia (C82)	-2.3%
20-001-0000-00000-14	FPMF Tumor Tumor Tumor	2000000131	131	129	129	129	Microgranulocytic leukaemia (C82)	-2.3%



Create Report

Here is a sample report for an RP transaction, and the Save dialog window. If percent differences are calculated to exceed the AQS edits, then the values will show in red text.

You can save the Word document to a path and filename of your choice.

New Toolbar Commands

- Look up Monitor
- Generate Transactions
- Add New Monitor / Method
- Create Report
- **Tribal Mode (On/Off)**




New Toolbar Commands

Tribal Mode (On/Off)

AQSP&A supports Tribal codes as implemented in AQS.

New Toolbar Commands

- Look up Monitor
- Generate Transactions
- Add New Monitor / Method
- Create Report
- **Tribal Mode (On/Off)**



- AQSP&A supports AQS Tribal codes
- A monitor can be identified in 2 ways:
 - **Non-Tribal Mode** = State - County - Site Id-Parameter-POC
 - **Tribal Mode** = TT- Tribal Code-Site Id-Parameter-POC

New Toolbar Commands

Tribal Mode (On/Off)

AQSP&A supports Tribal codes as implemented in AQS.

A monitor can be identified in 2 ways:

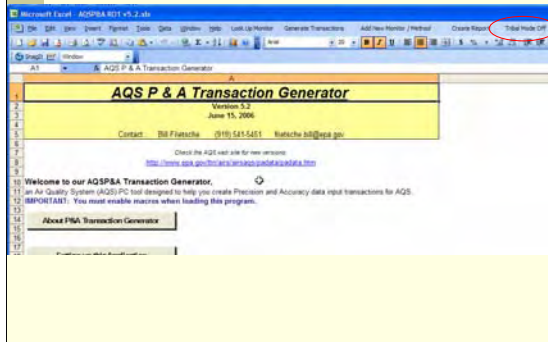
Non-Tribal Mode = State Code-County Code-Site Id-Parameter
Code-POC

Tribal Mode = TT-Tribal Code-Site Id-Parameter Code-POC

(TT is two Capital T's in place of the state code – this means that the next value in the transaction is a Tribal code, not a county code.)

New Toolbar Commands

- Look up Monitor
- Generate Transactions
- Add New Monitor / Method
- Create Report
- Tribal Mode (On/Off)



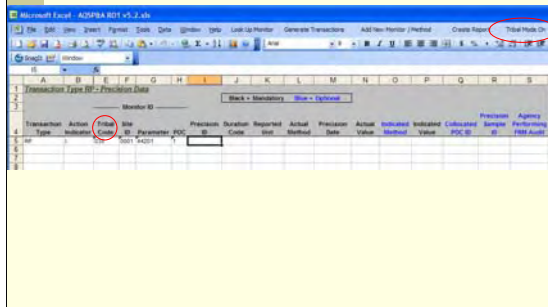
New Toolbar Commands

Tribal Mode (On/Off)

You can toggle Tribal mode on and off using the toolbar command.

New Toolbar Commands

- Look up Monitor
- Generate Transactions
- Add New Monitor / Method
- Create Report
- **Tribal Mode On**
 - Transaction spreadsheets show Tribal codes, rather than state-county codes.



New Toolbar Commands

Tribal Mode On

-> Transaction spreadsheets show Tribal codes, rather than state-county codes.

Right-click looks up Tribal information.

Look Up Monitor retrieves monitors by tribe, rather than state – county.

Ability to add, change or delete Tribal codes to existing monitors from Look Up Monitor command.

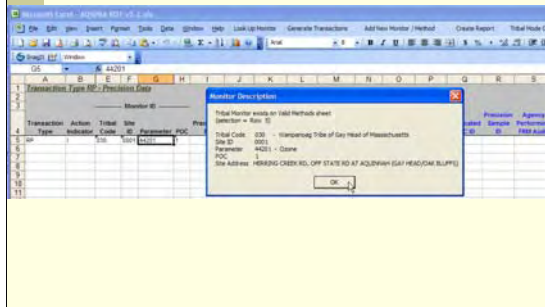
Generate Transactions outputs transactions in Tribal Code format.

Add New Monitor / Method includes Tribal code field.

Create Report creates report with Tribal codes.

New Toolbar Commands

- Look up Monitor
- Generate Transactions
- Add New Monitor / Method
- Create Report
- **Tribal Mode On**
 - Right-click looks up Tribal information.



New Toolbar Commands

Tribal Mode On

Transaction spreadsheets show Tribal codes, rather than state-county codes.

-> Right-click looks up Tribal information.

Look Up Monitor retrieves monitors by tribe, rather than state – county.

Ability to add, change or delete Tribal codes to existing monitors from Look Up Monitor command.

Generate Transactions outputs transactions in Tribal Code format.

Add New Monitor / Method includes Tribal code field.

Create Report creates report with Tribal codes.

New Toolbar Commands

- Look up Monitor
- Generate Transactions
- Add New Monitor / Method
- Create Report
- **Tribal Mode On**
 - Look Up Monitor retrieves monitors by Tribe, rather than State – County.



New Toolbar Commands

Tribal Mode On

Transaction spreadsheets show Tribal codes, rather than state-county codes.

Right-click looks up Tribal information.

-> Look Up Monitor retrieves monitors by tribe, rather than state – county.

Ability to add, change or delete Tribal codes to existing monitors from Look Up Monitor command.

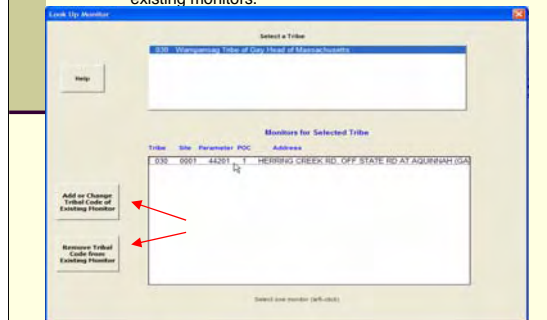
Generate Transactions outputs transactions in Tribal Code format.

Add New Monitor / Method includes Tribal code field.

Create Report creates report with Tribal codes.

New Toolbar Commands

- Look up Monitor
- Generate Transactions
- Add New Monitor / Method
- Create Report
- **Tribal Mode On**
 - Ability to add, change or delete Tribal codes to existing monitors.



New Toolbar Commands

Tribal Mode On

Transaction spreadsheets show Tribal codes, rather than state-county codes.

Right-click looks up Tribal information.

Look Up Monitor retrieves monitors by tribe, rather than state – county.

-> Ability to add, change or delete Tribal codes to existing monitors from Look Up Monitor command.

Generate Transactions outputs transactions in Tribal Code format.

Add New Monitor / Method includes Tribal code field.

Create Report creates report with Tribal codes.

New Toolbar Commands

- Look up Monitor
- Generate Transactions
- Add New Monitor / Method
- Create Report
- Tribal Mode On

- Ability to add, change or delete Tribal codes to existing monitors.



New Toolbar Commands

Tribal Mode On

Transaction spreadsheets show Tribal codes, rather than state-county codes.

Right-click looks up Tribal information.

Look Up Monitor retrieves monitors by tribe, rather than state – county.

Ability to add, change or delete Tribal codes to existing monitors from Look Up Monitor command.

->

ADD Tribal Code

Click to add this Tribal code to an existing monitor.

Generate Transactions outputs transactions in Tribal Code format.

Add New Monitor / Method includes Tribal code field.

Create Report creates report with Tribal codes.

New Toolbar Commands

- Look up Monitor
- Generate Transactions
- Add New Monitor / Method
- Create Report
- Tribal Mode On
 - Ability to add, change or delete Tribal codes to existing monitors.

Assign Tribal Code...

Tribal Code: 0001

1) Please select State code and County code of an existing monitor.

State: 33 County: 001

2) Please choose a monitor to receive Tribal code

Add Tribal Code?

Add Tribal code to this monitor?

OK Cancel

State	County	Monitor Code	Description	Count
09	001	00017	42181	1
09	001	00018	42181	1
09	001	10003	42060	1
09	001	10003	44391	1
09	001	10008	81128	1
09	001	10003	98081	1
09	001	10004	41043	1
09	001	10008	98033	1

Tribal Mode On

Right-click looks up Tribal information.

- Ability to add, change or delete Tribal codes to existing monitors
- Monitor command.

-> Click to add this Tribal code to an existing monitor, and click OK.

Generate Transactions outputs transactions in Tribal Code format.

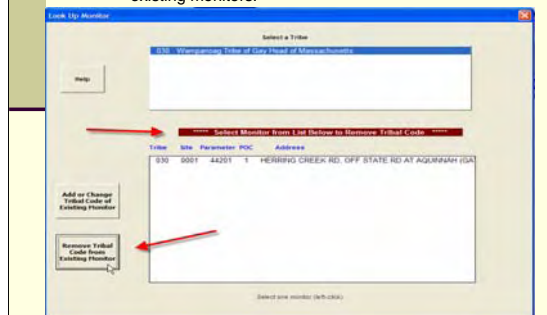
Create Report creates report with Tribal codes.

If data has already been submitted to AQS using the Tribal codes, then the codes will be included when the Regional files are refreshed on the

New Toolbar Commands

- Look up Monitor
- Generate Transactions
- Add New Monitor / Method
- Create Report
- Tribal Mode On

- Ability to add, change or delete Tribal codes to existing monitors.



New Toolbar Commands

Tribal Mode On

Transaction spreadsheets show Tribal codes, rather than state-county codes.

Right-click looks up Tribal information.

Look Up Monitor retrieves monitors by tribe, rather than state – county.

Ability to add, change or delete Tribal codes to existing monitors from Look Up Monitor command.

->

DELETE Tribal Code from monitor

Select the monitor which should have the tribal code removed, and then click the button to remove the Tribal code association.

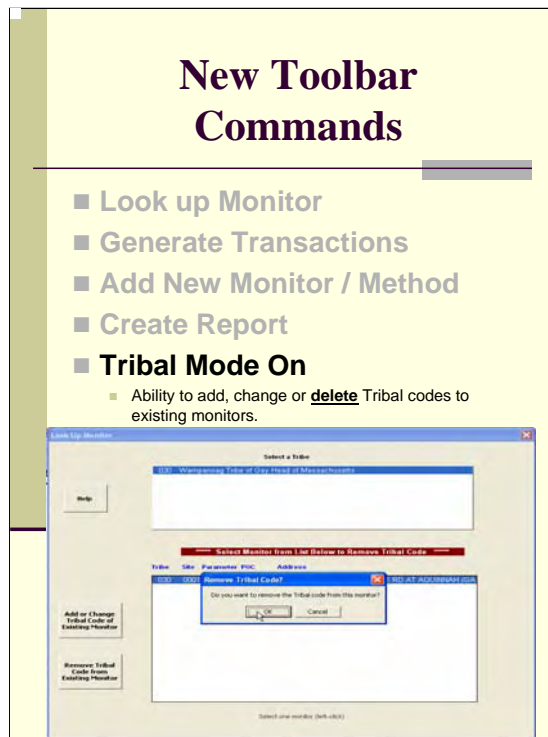
Generate Transactions outputs transactions in Tribal Code format.

Add New Monitor / Method includes Tribal code field.

Create Report creates report with Tribal codes.

Here, the one existing Tribal code can be deleted. The monitor will remain, but no longer have a tribal code.

Multiple Tribes and monitors would appear if there were more than one in the look up tables.



New Toolbar Commands

Tribal Mode On

Transaction spreadsheets show Tribal codes, rather than state-county codes.

Right-click looks up Tribal information.

Look Up Monitor retrieves monitors by tribe, rather than state – county.

Ability to add, change or delete Tribal codes to existing monitors from Look Up Monitor command.

->

DELETE Tribal Code

Click OK to remove association of Tribal Code with Monitor.

Generate Transactions outputs transactions in Tribal Code format.

Add New Monitor / Method includes Tribal code field.

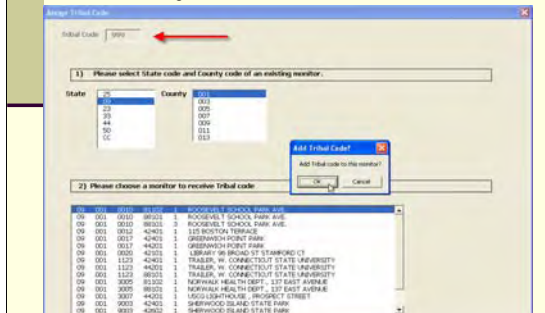
Create Report creates report with Tribal codes.

Ability to **change** Tribal codes for existing monitors from Look Up Monitor command. In other words, update the look up tables with Tribal codes so that they

will be available for help and validation routines.

New Toolbar Commands

- Look up Monitor
- Generate Transactions
- Add New Monitor / Method
- Create Report
- Tribal Mode On
 - Ability to add, change or delete Tribal codes to existing monitors.



New Toolbar Commands

Tribal Mode On

Transaction spreadsheets show Tribal codes, rather than state-county codes.

Right-click looks up Tribal information.

Look Up Monitor retrieves monitors by tribe, rather than state – county.

Ability to add, change or delete Tribal codes to existing monitors from Look Up Monitor command.

CHANGE Tribal Code

Choose the Tribal code you want to change to. Then select an existing monitor.

-> Click OK to change the Tribal Code associated with the chosen monitor.

Generate Transactions outputs transactions in Tribal Code format.

Add New Monitor / Method includes Tribal code field.

Create Report creates report with Tribal codes.

New Toolbar Commands

- Look up Monitor
- Generate Transactions
- Add New Monitor / Method
- Create Report
- **Tribal Mode On**
 - You have just seen how to associate (and dissociate) Tribal codes with monitors.
 - Please remember that this occurs in the AQSP&A spreadsheet only – to conform with the AQS use of Tribal codes, and make lookups work in tribal mode.
 - In order to successfully submit transactions to AQS using Tribal codes, the Site record in AQS must have the proper Tribal code associated with it.

New Toolbar Commands

Tribal Mode On

Transaction spreadsheets show Tribal codes, rather than state-county codes.

Right-click looks up Tribal information.

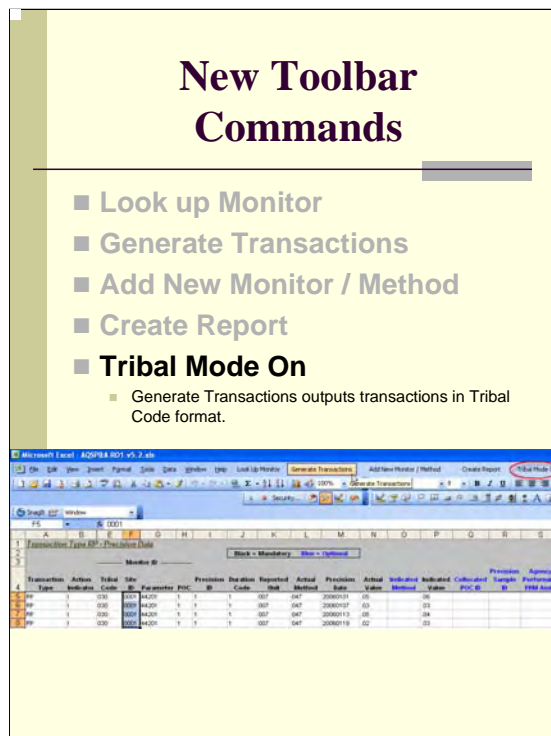
Look Up Monitor retrieves monitors by tribe, rather than state – county.

-> Ability to add, change or delete Tribal codes to existing monitors from Look Up Monitor command.

Generate Transactions outputs transactions in Tribal Code format.

Add New Monitor / Method includes Tribal code field.

Create Report creates report with Tribal codes.



New Toolbar Commands

Tribal Mode On

Transaction spreadsheets show Tribal codes, rather than state-county codes.

Right-click looks up Tribal information.

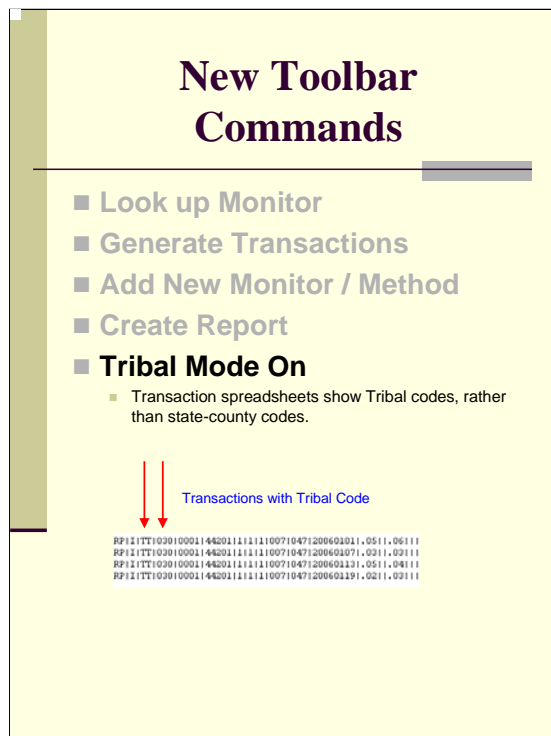
Look Up Monitor retrieves monitors by tribe, rather than state – county.

Ability to add, change or delete Tribal codes to existing monitors from Look Up Monitor command.

-> Generate Transactions outputs transactions in Tribal Code format.

Add New Monitor / Method includes Tribal code field.

Create Report creates report with Tribal codes.



New Toolbar Commands

Tribal Mode On

Transaction spreadsheets show Tribal codes, rather than state-county codes.

Right-click looks up Tribal information.

Look Up Monitor retrieves monitors by tribe, rather than state – county.

Ability to add, change or delete Tribal codes to existing monitors from Look Up Monitor command.

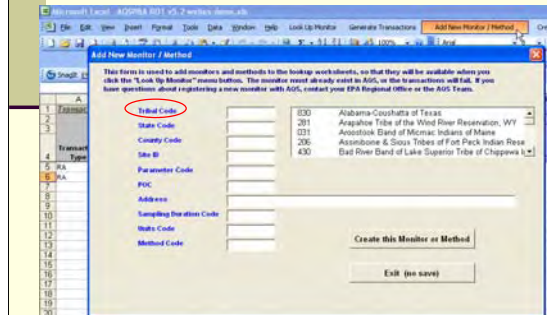
-> Generate Transactions outputs transactions in Tribal Code format.

Add New Monitor / Method includes Tribal code field.

Create Report creates report with Tribal codes.

New Toolbar Commands

- Look up Monitor
- Generate Transactions
- Add New Monitor / Method
- Create Report
- Tribal Mode On
 - Add New Monitor / Method command includes Tribal code field.



New Toolbar Commands

Tribal Mode On

Transaction spreadsheets show Tribal codes, rather than state-county codes.

Right-click looks up Tribal information.

Look Up Monitor retrieves monitors by tribe, rather than state – county.

Ability to add, change or delete Tribal codes to existing monitors from Look Up Monitor command.

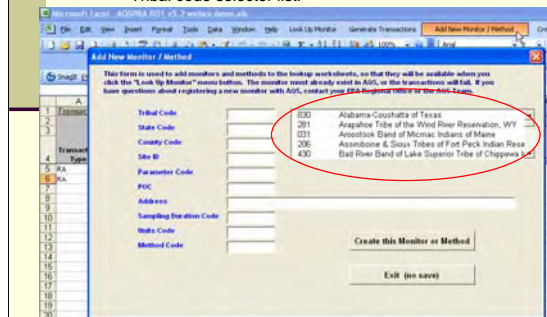
Generate Transactions outputs transactions in Tribal Code format.

-> Add New Monitor / Method includes Tribal code field.

Create Report creates report with Tribal codes.

New Toolbar Commands

- Look up Monitor
- Generate Transactions
- Add New Monitor / Method
- Create Report
- Tribal Mode On
 - Add New Monitor / Method command also includes Tribal code selector list.



New Toolbar Commands

Tribal Mode On

Transaction spreadsheets show Tribal codes, rather than state-county codes.

Right-click looks up Tribal information.

Look Up Monitor retrieves monitors by tribe, rather than state – county.

Ability to add, change or delete Tribal codes to existing monitors from Look Up Monitor command.

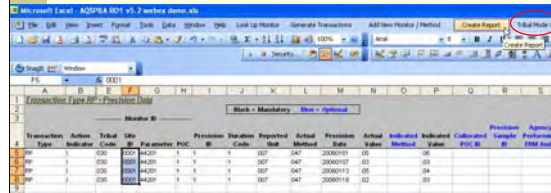
Generate Transactions outputs transactions in Tribal Code format.

-> Add New Monitor / Method includes Tribal code field.

Create Report creates report with Tribal codes.

New Toolbar Commands

- Look up Monitor
- Generate Transactions
- Add New Monitor / Method
- Create Report
- **Tribal Mode On**
 - Create Report creates report with Tribal codes.



The screenshot shows the Microsoft Excel interface with the AQOPEA RCM v5.7 toolbar. The toolbar includes buttons for 'Look Up Monitor', 'Generate Transactions', 'Add New Monitor / Method', 'Create Report', and 'Tribal Mode On'. The 'Tribal Mode On' button is circled in red. Below the toolbar, a spreadsheet is visible with columns for Transaction, Indicator, Tribal Code, Parameter, POC, B, Code, Method, Date, Value, and others.

New Toolbar Commands

Tribal Mode On

Transaction spreadsheets show Tribal codes, rather than state-county codes.

Right-click looks up Tribal information.

Look Up Monitor retrieves monitors by tribe, rather than state – county.

Ability to add, change or delete Tribal codes to existing monitors from Look Up Monitor command.

Generate Transactions outputs transactions in Tribal Code format.

Add New Monitor / Method includes Tribal code field.

-> Create Report creates report with Tribal codes.

New Toolbar Commands

- Look up Monitor
- Generate Transactions
- Add New Monitor / Method
- Create Report
- **Tribal Mode On**

■ Create Report creates report with Tribal codes.

Monitor	Parameter	Date	Proc ID	Actual Value (Primary for Collocation)	Method Code	Indicated Value (Primary for Cases)	Unit	% Difference
030 0001 - 44201 - 1	Opone	20000101	1	05	047	05	Puffs per million	-20.0
030 0001 - 44201 - 1	Opone	20000102	1	03	047	03	Puffs per million	0.0
030 0001 - 44201 - 1	Opone	20000113	1	05	047	04	Puffs per million	-20.0
030 0001 - 44201 - 1	Opone	20000119	1	02	047	03	Puffs per million	-50.0

Tribal Code

New Toolbar Commands

Tribal Mode On

Transaction spreadsheets show Tribal codes, rather than state-county codes.

Right-click looks up Tribal information.

Look Up Monitor retrieves monitors by tribe, rather than state – county.

Ability to add, change or delete Tribal codes to existing monitors from Look Up Monitor command.

Generate Transactions outputs transactions in Tribal Code format.

Add New Monitor / Method includes Tribal code field.

->

Create Report creates report with Tribal codes.

Miscellaneous Topics



Miscellaneous

Miscellaneous tips

Miscellaneous Topics

- Worksheet structure must be kept intact
- Using Cut / Copy / Paste
- Deleting Cell values
- Excel functions available
- Getting Updates

Miscellaneous Topics

- Worksheet structure must be kept intact



By worksheet structure, I am referring to the worksheet names, column positions, cell validation formulae, and lookup table data.

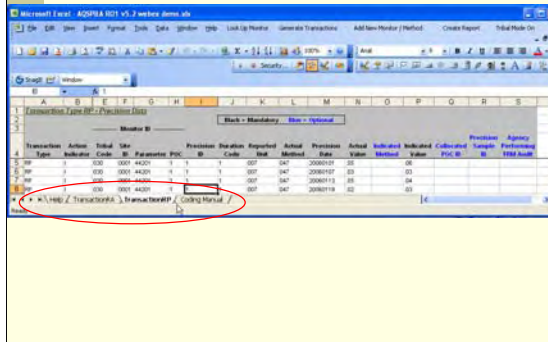
Miscellaneous Topics

- Worksheet structure must be kept intact
 - Adding columns, moving columns, or adding look up table entries may disable VBA routines
 - If this happens, reload a "fresh" copy from the AQS website.



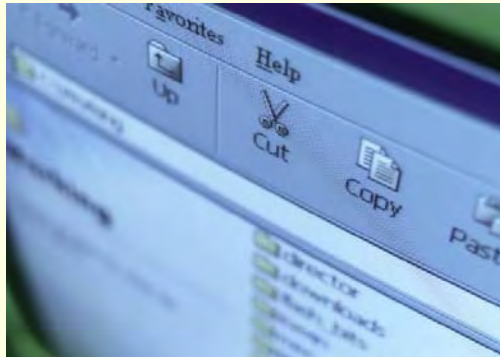
Miscellaneous Topics

- Worksheet structure must be kept intact
 - You can hide the 3 look up sheets.
 - Do not hide the Coding Manual sheet.
 - The Coding Manual sheet must be visible for data element look ups to work.



Miscellaneous Topics

- Worksheet structure must be kept intact
- Using Cut / Copy / Paste

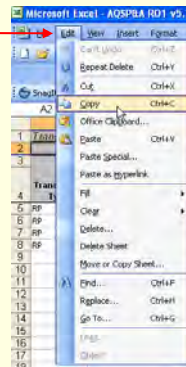


As mentioned earlier, the mouse right click has been reprogrammed to perform field lookups. So the right click menu will not appear. Instead, use the menu commands at the top of the application.

Miscellaneous Topics

- Worksheet structure must be kept intact
- Using Cut / Copy / Paste
 - The default “right-click” menu of commands is not active on the worksheets (cut, copy, paste, insert, delete, clear, format, etc.).

You can perform these functions by using the Excel command menu toolbar.

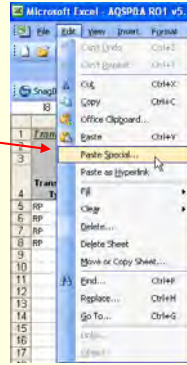


Here is an example of using the menu for the “Copy” function.

Miscellaneous Topics

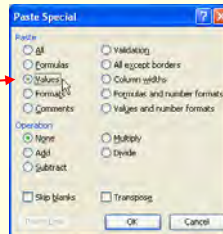
- Worksheet structure must be kept intact
- Using Cut / Copy / Paste
 - Choose "Paste Special" when pasting.

This will give you additional Excel Paste options.



Miscellaneous Topics

- Worksheet structure must be kept intact
- Using Cut / Copy / Paste
 - Choose "Paste Values Only".



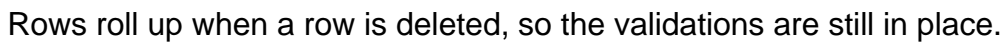
This will keep the formatting and validation in place for the selected cells

Miscellaneous Topics

- Worksheet structure must be kept intact
- Using Cut / Copy / Paste
- Deleting Cell values

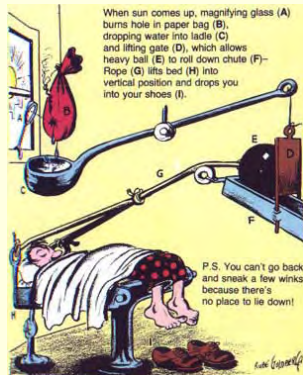


- Worksheet structure must be kept intact
- Using Cut / Copy / Paste
- **Deleting Cell values**
 - Deleting rows on the transaction spreadsheets is OK.
 - The data validations are still in place.



Miscellaneous Topics

- Worksheet structure must be kept intact
- Using Cut / Copy / Paste
- Deleting Cell values
- Excel functions available



Excel has many built in functions. You can use them if you are careful not to modify the workbook structure.

Miscellaneous Topics

- Worksheet structure must be kept intact
- Using Cut / Copy / Paste
- Deleting Cell values
- Excel functions available
 - Sorting
 - Filters
 - Save as
 - Excel Functions

Miscellaneous Topics

- Worksheet structure must be kept intact
- Using Cut / Copy / Paste
- Deleting Cell values
- Excel functions available
 - Sorting
 - Filters
 - Save as
 - Excel Functions

Formula bar: =VAL(PS/VAL(EN)/VAL(EN))

Worksheet: Transaction Data

Menu: Blank - Mandatory - New - System

Code	Site	Prevision	Station	Reported	Actual	Prevision	Actual	Indicated	Indicated	Calculated	Complete	Prevision	Agency
Code	Site	Prevision	Station	Reported	Actual	Prevision	Actual	Indicated	Indicated	Calculated	Complete	Prevision	Agency
000	44201	1	1	1	001	047	20000101	01	01	01	01	01	01
000	44201	1	1	1	002	047	20000102	01	01	01	01	01	01
000	44201	1	1	1	003	047	20000103	01	01	01	01	01	01
000	44201	1	1	1	004	047	20000104	01	01	01	01	01	01
000	44201	1	1	1	005	047	20000105	01	01	01	01	01	01

Here is an added function to calculate the percent difference for each pair of values. The formula is out past the transaction fields.

Miscellaneous Topics

- Worksheet structure must be kept intact
- Using Cut / Copy / Paste
- Deleting Cell values
- Excel functions available
 - Sorting
 - Filters
 - Save as
 - Excel Functions

The screenshot shows an Excel spreadsheet with a table containing monitoring data. The table has columns for Station ID, Parameter, Precision, Duration, Expected, Actual, Precision, Actual, Indicated, Collocated, Calculated, Precision, Agency, and Performing. A red arrow points to the 'Collocated' column.

Here, the standard deviation of the percent differences is calculated.

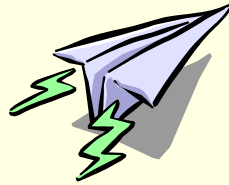
Keep in mind that not all percent differences are used when AQS calculates standard deviation for collocated monitors. Both values must be above the following limits for the percent difference to be used in the precision calculations:

TSP	20 $\mu\text{g}/\text{m}^3$
SO ₂	45 $\mu\text{g}/\text{m}^3$
NO ₂	30 $\mu\text{g}/\text{m}^3$
Pb	0.15 $\mu\text{g}/\text{m}^3$
PM ₁₀	20 $\mu\text{g}/\text{m}^3$
PM _{2.5}	6 $\mu\text{g}/\text{m}^3$

Note: If you have data on your worksheet, and if you are going to experiment with functions, then make a backup copy to prevent retyping. You can always cut and paste data back into a fresh copy.

Miscellaneous Topics

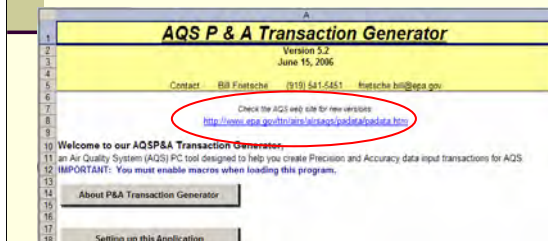
- Worksheet structure must be kept intact
- Using Cut / Copy / Paste
- Deleting Cell values
- Excel functions available
- Getting Updates



How do you get new files with updated look up tables and updated code?

Miscellaneous Topics

- Worksheet structure must be kept intact
- Using Cut / Copy / Paste
- Deleting Cell values
- Excel functions available
- Getting Updates
 - Click on link to check for new updates
 - New updates will have a different version number



Questions

- User Support
 - Bill Frietsche
 - (919) 541-5451 or frietsche.bill@epa.gov



And you can always call me. Without feedback from you, I don't know how things are going... so I always appreciate hearing if there is a problem or confusing aspect with the application.

Thank You

- Would you please fill out the evaluation questions?

Thank You

Thank you for participating. I would appreciate it if you would fill out the test questions